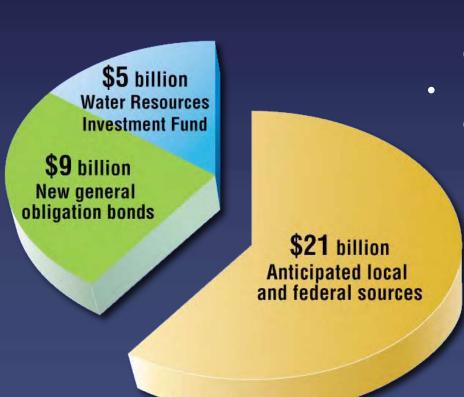
# Senate Natural Resource and Water Committee Hearing January 24, 2006

### Governor's Strategic Growth Plan

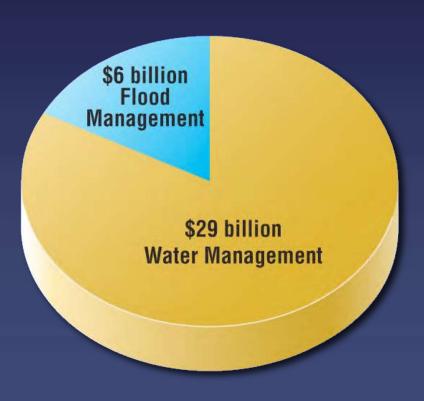
Flood Protection and Clean, Safe, Reliable Water Supply Bond and Financing Acts of 2006 and 2010

presentation by:

Lester A. Snow, Director Department of Water Resources



- Governor's Strategic Growth plan will invest \$35 billion over 10 years
- Responding to population growth and lack of sustained investment strategy



 Governor's Strategic Growth plan will invests \$6 billion in Flood Management and \$29 billion in Water Management

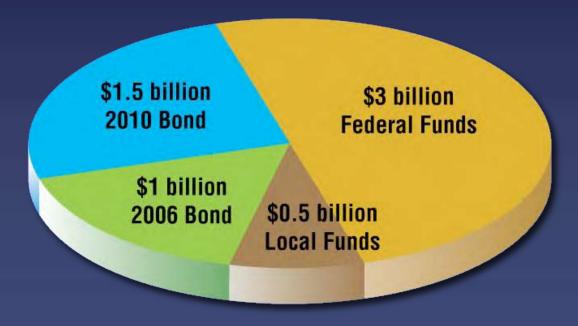
- California has specific plans for water quality, water supply, and flood protection
- The Governor's Strategic Growth Plan provides the investment strategy to carry out these plans



- Elements of the Flood Protection and Clean, Safe, Reliable Water Supply Bond and Financing Acts of 2006 and 2010 (SB 1166, AB 1839):
  - Flood Protection and Water Supply Bond in 2006
  - Flood Protection and Water Supply Bond in 2010
  - Establishment of a Water Resources Investment Fund
- Bonds will provide:
  - \$2.5 billion for flood management
  - \$6.5 billion for water management

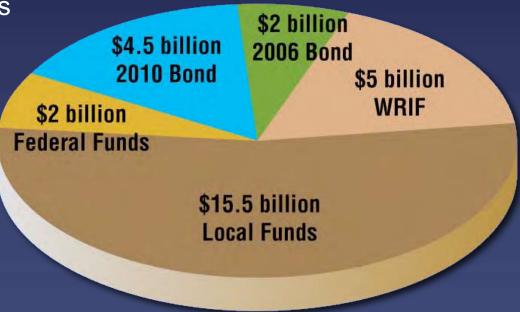
### Flood Management Investments

 Bond funds will leverage other flood investments to total \$6 billion over 10 years



### Water Management Investments

 Bond funds will leverage other water management investments to total \$29 billion over 10 years



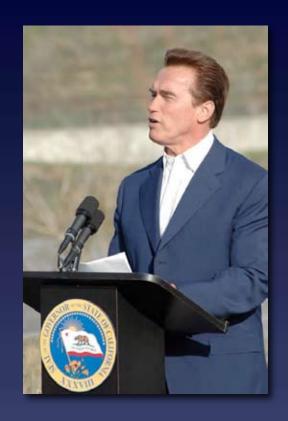
- Water Resources Investment Fund
  - A new source of funding for water management
  - Will ensure that our investments don't fall behind again
  - Two-thirds of the fund supports regional projects
  - One-third supports statewide water management projects
  - Capacity charge paid by every retail water customer
  - About ten cents per day



- Most WRIF funds support integrated regional water management
- Sustainable source of funding
- Improve water quality and meet water supply needs

### **FLOOD MANAGEMENT**

# Flood Protection and Clean, Safe and Reliable Water Supply Bond and Financing Acts of 2006 and 2010



Flood Control	<u>2006</u>	<u>2010</u>
1. Repair of State-Federal Project Levees and Facilities	\$210 million	\$300 million
2. Flood Control and Levee System Improvements	\$200 million	\$200 million
3. Delta Levee Subventions and Special Projects	\$210 million	\$700 million
4. Flood Control Subventions	\$250 million	\$200 million
5. Floodplain Mapping	\$ 90 million	\$ 0
6. Floodway Corridor Program	\$ 40 million	\$100 million
TOTAL	\$ 1 billion	\$ 1.5 billion

Protecting California from Devastating Floods

✓ Bond funds will leverage other flood investments



#### Flood Control Investment over 10 Years:

	State	Federal	Local	Total
Repair of State-Federal Project Levees and Facilities	\$ 510 million	\$ 300 million	\$ 30 million	\$ 840 million
2. Flood Control and Levee System Improvements	\$ 400 million	\$ 930 million	\$ 150 million	\$1,480 million
3. Delta Levee Subventions and Special Projects	\$ 910 million	\$ 400 million	\$ 100 million	\$1,410 million
4. Flood Control Subventions	\$ 450 million	\$1,190 million	\$ 190 million	\$1,830 million
5. Floodplain Mapping	\$ 90 million	\$ 0	\$ 0	\$ 90 million
6. Floodway Corridor Program	\$ 140 million	\$ 180 million	\$ 30 million	\$ 350 million
TOTAL	\$ 2.5 billion	\$ 3.0 billion	\$ 0.5 billion	\$ 6.0 billion

#### 1. Repair of State-Federal Project Levees and Facilities

### **2006 Bond - \$210** million to address deterioration and design deficiencies in Facilities of State Plan of Flood Control:



- \$ 15 million for Sediment Removal
- \$ 25 million for Facility Repairs
- \$ 50 million for Erosion Repairs
- \$ 50 million for Levee Evaluations
- \$ 20 million for Mitigation Banks
- \$ 50 million for Levee and other Repairs

### **2010 Bond - \$300** million to address deterioration and design deficiencies in Facilities of State Plan of Flood Control:



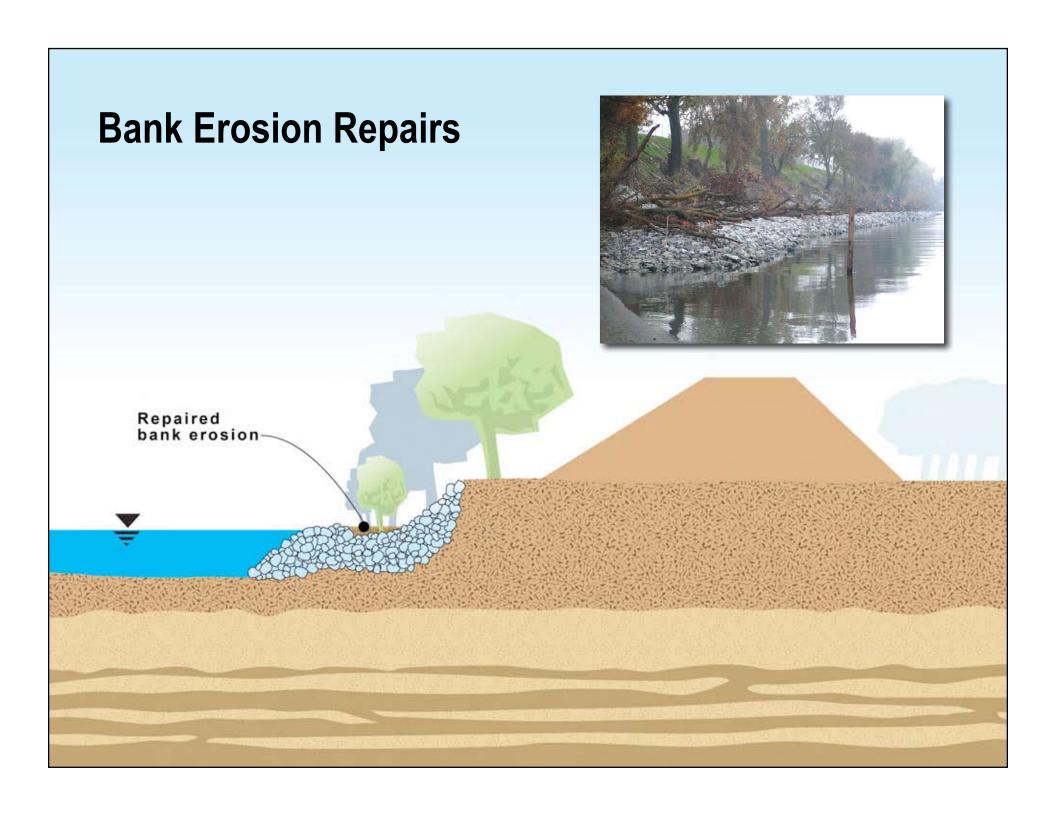
- \$100 million for Erosion Repair and Sediment Removal
- \$100 million for Levee Evaluations and Repairs
- \$100 million for Levee and other Repairs

### **Levee and Bank Erosion**









#### 2. Flood Control and Levee Improvements

Provides High Levels of Flood Protection for Urban Areas –

Most of this funding will provide the State Cost Share of a Federal Corps of Engineers Flood Control Project:

#### For 2006 Bond - \$200 million for the following Projects:

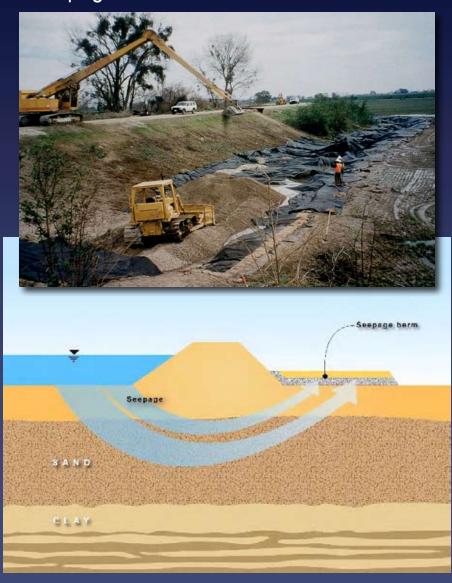
- \$ 70 million for Folsom Dam Modifications/Raise
- \$ 25 million for American River Common Features
- \$ 10 million for South Sacramento Streams
- \$ 10 million for Enhanced Emergency Preparedness
- \$ 85 million to supplement above repairs or be available for other urban areas



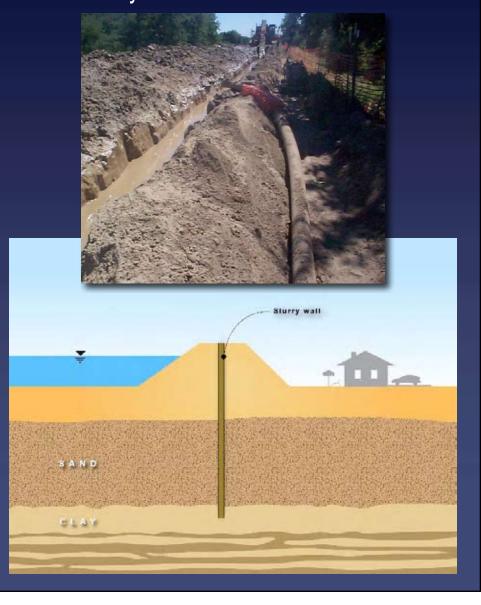
For 2010 Bond - \$200 million for State Cost Share to Provide
High Levels of Flood Protection for Urban Areas

### Levee Seepage Repairs:

#### Seepage Berm



#### Slurry Wall



#### 3. Delta Levee Subventions and Special Projects

For 2006 Bond - \$210 million: \$60 million for Delta Levee Maintenance Subventions **\$150 million for Special Flood Control Projects** 

For 2010 Bond - \$700 million: \$60 million for Delta Levee Maintenance Subventions \$640 million for Special Flood Control Projects





#### 4. Flood Control Subventions

**2006 Bond -** \$250 million for reimbursement to Local Agencies for State's share of Federal Project Construction *Outside* of the Central Valley

**2010 Bond -** \$200 million for reimbursement to Local Agencies for State's share of Future Federal Project Construction *Outside* of the Central Valley

#### 4. Flood Control Subventions

#### Major projects include:

- Guadalupe River (Santa Clara County)
- Lower Silver Creek (Santa Clara County)
- Napa River (Napa County)
- Santa Ana River (Orange, San Bernardino, Riverside Counties)



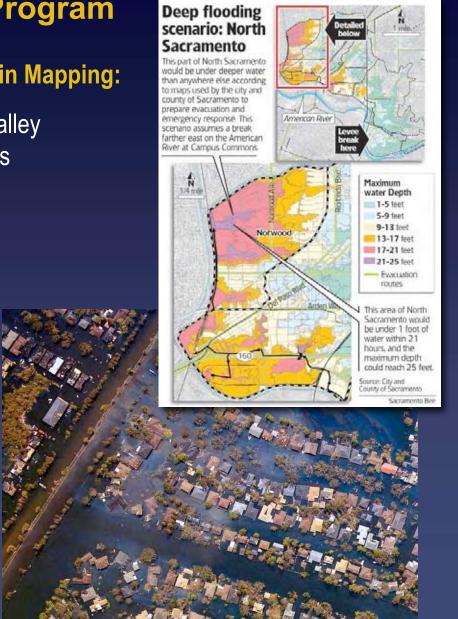
### 5. Floodplain Mapping Program

#### 2006 Bond - \$90 million for Floodplain Mapping:

- \$ 87 million for Central Valley
- \$3 million for Alluvial Fans

#### Floodplain Mapping Issues:

- Communities Rely on Floodplain Maps in Planning Development
- Current Maps Woefully Inaccurate
- To Update Maps, need:
  - Geotechnical data and analyses
  - Recent Surveys
  - Hydrologic and Hydraulic Analyses



#### 6. Floodway Corridor Program

**2006** Bond - \$ 40 million for Flood Corridor Program

2010 Bond - \$100 million for Flood Corridor Program

Provides Flood Risk Reduction in Rural Communities

- Expands Floodways by:
  - Building New Levees
  - Setting Back Levees
  - Purchasing Flowage Easements
  - Adding Floodwater Detention Areas
- In Acquiring Land Rights, Priority is for Easements from Willing Sellers

#### 6. Floodway Corridor Program

Hamilton City Flood Damage Reduction and Ecosystem Restoration

- Remove "J" Levee
- Construct 6.8 miles of setback levee
- Provides up to 90% confidence of passing a 75-yr event
- Restore 1,476 acres of native habitat communities

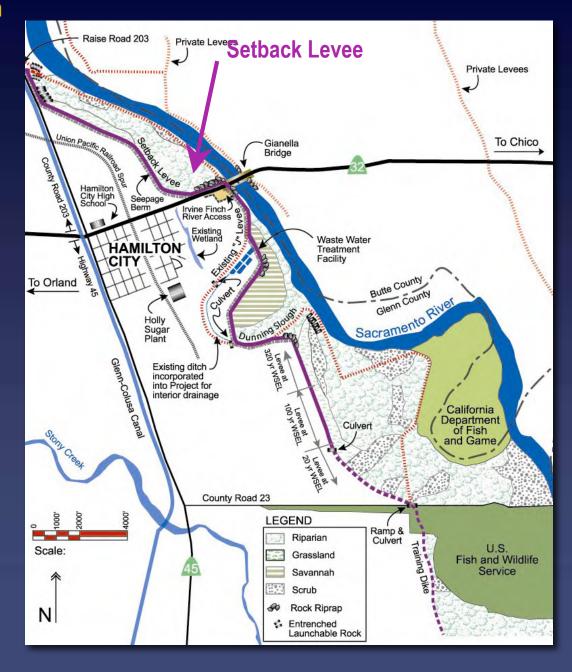
**Estimated Cost: \$44 Million** 

#### **Cost Shares:**

Federal 65 %

**State 24.5 %** 

Local 10.5 %



### Governor's FY 06-07 Flood Management Budget

Complements Bond Proposal by providing an additional \$38.2 million and 32 positions

Second Year Budget Summary FY 2006-07 Request:	Additional Funding	Added Positions
Flood Project Maintenance	\$ 13.3 million	14
System Reevaluation and Rehabilitation	\$ 2.1 million	8
Emergency Response	\$ 2.3 million	9
Floodplain Management	\$ 3.0 million	1
Delta Levee Program	\$ 15.0 million	0
Supplemental Funding	\$ 2.5 million	0
	\$ 38.2 million	32

An Additional \$31 million is provided for Central Valley Flood Control Projects

### **Assembly Bill 1665 (Laird)**

- State Plan of Flood Control and System Status Report
- Reports on Local Agency Levee Maintenance
- Notification of Flood Risk and Insurance Availability
- Mandatory Purchase/Offer of Flood Insurance
- Indemnification of State by Local Agencies
- State Abatement of Deficient Local Agency Maintenance
- Mitigation Banking
- Beneficiaries Provide Stable Funding for O&M

### **Environmental Permitting and Mitigation**

- State Environmental Requirements Include:
- California Environmental Quality Act (CEQA)
- California Endangered Species Act (CESA)
- Streambed Alteration Agreements (F&G Code 1600)
- Surface Mining and Reclamation Act of 1975

#### **Federal Environmental Requirements Include:**

- National Environmental Policy Act (NEPA)
- Federal Endangered Species Act (ESA)
- Clean Water Act, Including:
  - Section 401
  - Section 404
- River and Harbors Act of 1899

• Compliance with these acts, particularly with the federal ESA and Clean Water Act requirements, is a lengthy and expensive process

### **Environmental Permitting and Mitigation**

#### **Initiatives to Facilitate Flood Control Work:**

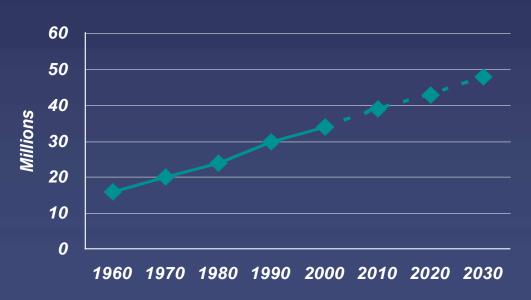
- Interagency Collaborative Process Initiated in 2005
- Mitigation Banking
- Fund Permit Reviews in Resource Agencies (FY06-07 Budget)
- Cost Sharing Multi-Objective Projects

# Water Management

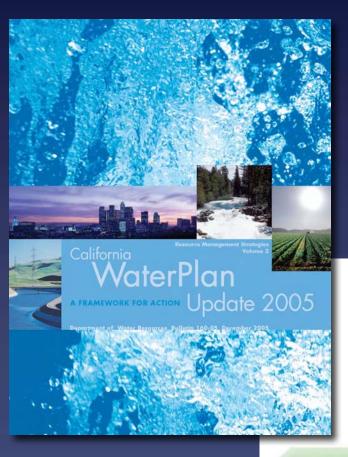
### **Future Water Challenges**

- Provide for new water needs (primarily in urban sector due to population growth)
- Protect and improve water quality
- Improve reliability and sustainability of water supplies for all beneficial uses

#### California Population Growth



### California Water Plan



#### **Key Initiatives:**

- Integrated Regional Water Management
- Statewide Water Management



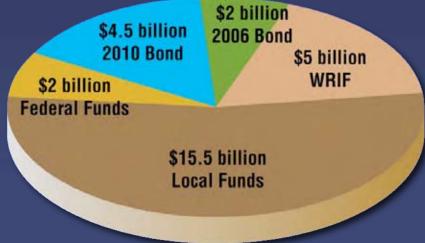
### California Water Plan Approach

- Maintain existing statewide and interregional systems to provide base supplies
- Promote new regional solutions to provide for future needs:
  - Reduce Water Demand
  - Improve Operational Efficiency & Transfers
  - Increase Water Supply
  - Improve Water Quality
  - Practice ResourceStewardship



### Governor's Strategic Growth Plan \$29 Billion over 10 years

- Bonds and WRIF provide stable funding for
  - Regional Investments
  - Statewide Investments
- Bond financing jump starts investments (\$6.5 billion)
- WRIF provides continuous and sustained investments (about \$5 billion)
- Bonds and WRIF create incentive for other local investments and provide cost share to obtain federal matching funds (about \$17.5 billion)

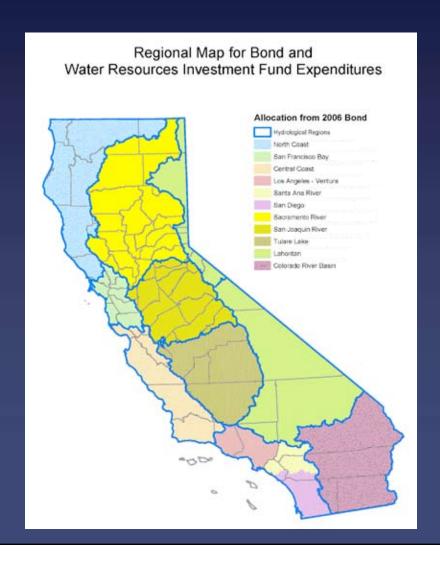


### Water Resources Investment Fund

- A new source of sustainable, continuous funding for water management
- Capacity Change applied to water retailers based on number and types of connections
- One-half of collected funds are deposited in regional accounts to support regional projects and to be used as local match for bond funds
- One-half of collected funds are deposited in a statewide account for:
  - Obtaining federal matching funds
  - Supporting priority regional projects
  - Emergency funding for remediation of groundwater contamination
  - Water infrastructure of statewide significance
  - Other statewide programs that promote IRWM

# Regional Program Bond and WRIF Funding

- \$5.5 billion over 10 Years
- Promotes investments in regional projects that local agencies cannot implement individually
- Creates incentive for long term investment strategy
- Provides for proactive rather than reactive investments
- Promotes regional partnerships that provide efficient investment and reduce conflict
- Allows regional prioritization of investments



### Regional Strategies Eligible for Funding

#### **Reduce Water Demand**

- Agricultural Water Use Efficiency
- Urban Water Use Efficiency

#### Improve Operational Efficiency and Transfers

- Conveyance
- System Reoperation
- Water Transfers

#### **Increase Water Supply**

- Conjunctive Management and Groundwater Storage
- Desalination –Brackish and Seawater
- Precipitation Enhancement
- Recycled Municipal Water
- Surface Storage CALFED
- Surface Storage Regional/Local

#### **Improve Water Quality**

- Drinking Water Treatment and Distribution
- Groundwater/Aguifer Remediation
- Matching Quality to Use
- Pollution Prevention
- Urban Runoff Management

#### **Practice Resource Stewardship**

- Agricultural Lands Stewardship
- Economic Incentives (Loans, Grants, and Water Pricing)
- Ecosystem Restoration
- Floodplain Management
- Recharge Areas Protection
- Urban Land Use Management
- Water-Dependent Recreation
- Watershed Management

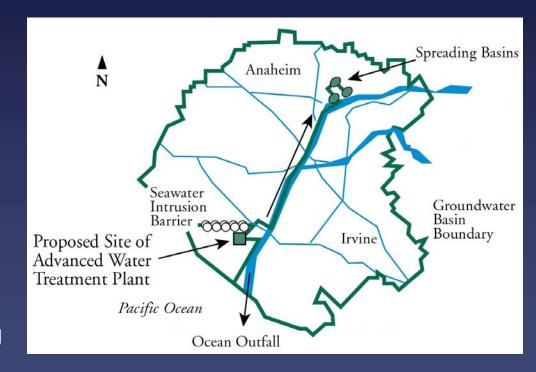
# Example: Orange County Water District Groundwater Replenishment System

#### **Major Partners**

- OCWD
- OC Sanitation District

#### **Project Benefits**

- Provides 72 TAF supply
- Reduces dependence on imported water
- Utilizes investments in existing recharge, pumping and distribution facilities



- Postpones need for new ocean outfall for wastewater
- Enhances GW basin protection from seawater intrusion
- Reduces effluent loading to ocean

# Statewide Program Bond and WRIF Funding

- Pools funding to promote better state agency coordination
- Leverages federal funds and backstops regional investments
- Develops new technologies and improves planning for emerging challenges such as climate change
- Provides funding to implement new storage proposals





### **Statewide Program**

**Bond Funding\* (\$millions)** 

	2006 Bond	2010 Bond	Total
Water Quality	\$250	\$500	\$750
Storage	\$250	\$1,000	\$1,250
New Technology and Science	\$300	\$500	\$800
Resource Stewardship	\$200	\$500	\$700

<sup>\*</sup> Statewide WRIF funding will supplement priority regional projects and these bond funded programs

# Statewide Program Water Quality

- \$750 million in bond funds\*
- Obtain federal match for Safe Drinking Water SRF
- State Water Pollution Control RF
- Remediate groundwater contamination
- Mitigate Impacts of runoff and drainage



Stringfellow water treatment plant in Glen Avon, California. Part of the Stringfellow Superfund site

<sup>\*</sup>May be supplemented by WRIF funding

# Statewide Program Storage

- \$1.25 billion bond funds\*
- Complete planning and provide cost share for public benefits of CALFED surface storage projects
- Construct locally-controlled groundwater storage that provides interregional benefits



Artist's rendering of Sites Reservoir

Possible
location of
Temperance
Flat Dam on
the upper San
Joaquin River



\*May be supplemented by WRIF funding

# **Statewide Program New Technology and Science**

- \$800 million in bond funds\*
- Advance desalination and water conservation technology
- Construct desalination facilities
- Advance science to improve project implementation
- Prepare for impacts from climate change



Reverse osmosis desalination

<sup>\*</sup>May be supplemented by WRIF funding

# Statewide Program Resource Stewardship

- \$700 million in bond funds\*
- Restore ecosystems of statewide significance
- Habitat conservation planning and implementation
- Ag land conservation
   (e.g. Working Landscapes Program)





Merced River Salmon Habitat Enhancement Project

\*May be supplemented by WRIF funding

### Sound Investments in Water Management



- Sustained investment approach
- Match specific plans for water quality, water supply and flood protection improvements with investment strategy
- Largest investment in state history to maintain and improve flood and water management programs

#### Three components of state investment:

- Bonds
- Water Resources Investment Funds
- State Budget Increase

In Addition, Legislative Initiatives (e.g. AB 1665) will Complement these Investments